## Massey, Michael

**From:** Taraszki, Michael D <Michael.Taraszki@amec.com>
**Sent:** Wednesday, January 30, 2013 5:24 PM
**To:** manheimer, kelly
**Subject:** 4909F correspondence
**Attachments:** VMC-HEWITT - Well 4909F Sampling Description for EPA.doc.PDF.PDF

Kelly –

Thank you again for your time to talk with me today. I found the information that Brian Anderson had provided me regarding his correspondence with EPA in 2011 about well 4909F. See below and attached.

*Well 4909F has a casing leak. We informed EPA of this casing leak in March 2011. A copy of our prior email to EPA is provided below (the relevant attachment to our email to EPA is attached hereto). Vulcan is considering closing this well and replacing it with a more appropriate up-gradient well, screened in the A-zone groundwater. The existing 4909F is screened from 138 to 348 ft bgs and is therefore unlikely to yield useful information on any groundwater zone.*

We recently learned that the leak was observed (via video log) at a casing joint approximately 116 feet bgs and that the Hewitt Pit landfill (unlined) extends between 100 and 140 feet bgs. Considering that depth to water is typically >250 feet bgs, the source of water at 116 feet bgs (at enough pressure to leak through a well casing joint) is a mystery to me.

As we discussed, we would prefer to proceed with our plans to collect an A-Zone and B-Zone sample from well 4909F, rather than only an A-Zone sample from their proposed replacement well. An installation schedule has not been provided to us yet, although I've been requesting that information from Vulcan since last September. I have no doubt they intend to install it, but I have no way of knowing if it might be available in time for even our second semi-annual sampling event.

Thank you,

**Michael Taraszki**
**Principal Hydrogeologist, PG, CHG, PMP**
**AMEC**
Environment & Infrastructure, Inc.
2101 Webster Street, 12th Floor, Oakland, CA 94612 USA
Direct (510) 663-3996, Mobile (510) 368-4549
michael.taraszki@amec.com
amec.com

**EPA Requested Groundwater Sampling from Well 4909F on 02-15-2011 – Additional Notes on LADWP Well 4909C**

**Well 4909F**: During February 2011 sampling, Haley & Aldrich Inc. conducted video logging of Well 4909F. Video logging confirmed that the well casing was leaking from several casing joints above the water table. Haley & Aldrich Inc. bailed a small amount of sediment from the bottom of the well and then purged 800 gallons of groundwater (approximately 4 well casing volumes) from the well before collecting a groundwater sample (details provided on Sampling Field Form). Based on the results of the video log, it is probable that groundwater samples collected from this well are impacted by water leaking from the casing and into the well. Therefore, groundwater samples may not be representative of groundwater from the formation screened by the well.

**Well 4909C**: Based on review of well completion information and other historic data from LADWP's Well 4909C, Haley & Aldrich Inc. believes that sampling from LADWP's Well 4909C in its current condition would not provide groundwater samples that are representative of the Upper Groundwater Zone. This well has packer and pump equipment inside the well, which makes access for groundwater sampling impossible in its current condition. This well has four (4) separate screened zones down to 490 feet below ground surface. In all likelihood, the packers are not functioning as originally designed due to corrosion and other factors. Thus, even if the well was accessible for sampling, which it is not, the results from such sampling may not be representative of actual groundwater from the Upper Groundwater Zone.